CRF ≝rors Corrected by the STIC	C Systems Branch / /
Number: 08/249,671	CRF Processing Date: 66/16/94/ Edited by:
Changed a file from non-ASCII to ASCII	Verified by: (STIC
Changed the margins in cases where the sequence text was	"wrapped" down to the next line
Edited a format error in the Current Application Data section,	specifically:
Edited the Current Application Data section with the actual capplicant was the prior application data; or other	urrent number. The number inputted by the
Added the mandatory heading and subheadings for "Curren	t Application Data".
Edited the "Number of Sequences" field. The applicant spell	ed out a number instead of using an integer.
Changed the spelling of a mandatory field (the headings or s	ubheadings), specifically:
Inserted a space between the last nucleic designator and the	nucleic number for sequences:
Deleted page numbers in the text of the sequence listing, wh	ich is considered invalid text.
Corrected the SEQ ID NO when obviously incorrect. The sec	quence numbers that were edited were:
Inserted a nucleic number at the end of a nucleic line. SEQ	ID NO's edited:
Corrected subheading placement. All responses must be on applicant placed a response below the subheading, this was	the same line as each subheading. If the moved to its appropriate place.
Inserted colons after headings/subheadings. Headings edite	ed included:
Deleted extra, invalid, headings used by an applicant, specif	ically:
Deleted non-ASCII "garbage" at the end of files, and other in	nvalid text, such as a secretary's initials.
Inserted mandatory headings, specifically:	
Corrected an obvious error in the response, specifically:	
Edited identifiers where upper case is used but lower case is	s required, or vice versa.
Corrected an error in the Number of Sequences field, specif	ically:
A "Hard Page Break" code was inserted by the applicant. A	Il occurrences had to be deleted.
Other: Startes applicant no	omes on same lin

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

8/01/93

RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 16:58:10

INPUT SET: S2395.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

```
1
                                       SEQUENCE LISTING
 2
 3
     (1)
           General Information:
                                                                ENTERE
 4
 5
          (i) APPLICANTS:
                               Hauptmann, R.
 6
                               Falkner, E.
                               Bodo, G.
 7
 8
                               VoÃ, T.
 9
                               Maurer- Fogy, I.
10
         (ii) TITLE OF INVENTION:
                                   Process for Preparing and Purifying
11
12
                                    alpha-Interferon
13
        (iii) NUMBER OF SEQUENCES: 12
15
16
         (iv) CORRESPONDENCE ADDRESS:
               (A) ADDRESSEE: Sterne, Kessler, Goldstein & Fox
17
               (B) STREET: 1100 New York Avenue, Suite 600
18
               (C) CITY: Washington
19
20
               (D) STATE: D.C.
21
               (E) COUNTRY: U.S.A.
               (F) ZIP: 20005
22
23
24
          (v) COMPUTER READABLE FORM:
               (A) MEDIUM TYPE: Floppy disk
25
               (B) COMPUTER: IBM PC compatible
26
               (C) OPERATING SYSTEM: PC-DOS/MS-DOS
27
               (D) SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
28
29
         (vi) CURRENT APPLICATION DATA:
30
               (A) APPLICATION NUMBER:
31
32
               (B) FILING DATE: herewith
33
               (C) CLASSIFICATION:
34
       (viii) ATTORNEY/AGENT INFORMATION:
35
               (A) NAME: Esmond, Robert W. RWE/EG
36
               (B) REGISTRATION NUMBER: 32,893
37
               (C) REFERENCE/DOCKET NUMBER: 0652.1350000
38
39
40
         (ix) TELECOMMUNICATION INFORMATION:
41
               (A) TELEPHONE: (202) 371-2600
               (B) TELEFAX: (202) 371-2540
42
43
44
45
     (2) INFORMATION FOR SEQ ID NO: 1:
46
```

RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 16:58:15

47		
48	(i) SEQUENCE CHARACTERISTICS:	
49	(A) LENGTH: 25 base pairs	
50	(B) TYPE: nucleic acid	
51	(C) STRANDEDNESS: both	
52	(D) TOPOLOGY: unknown	
53	(b) Toronogi. unknown	
54	(ii) MOLECTHE TADE. CDNA	
55	(ii) MOLECULE TYPE: cDNA	
	(wi) GROVENGE DEGREEDED GEO. ID NO. 1	
56	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:	
57	CONCENSION AND PROGRAM BY THE CONCENSION OF THE	
58	CGTCTTCAAG AATTCGAGAT TATCG	25
59	6.1	
60	(2) INFORMATION FOR SEQ ID NO: 2:	
61		
62	(i) SEQUENCE CHARACTERISTICS:	
63	(A) LENGTH: 56 base pairs	
64	(B) TYPE: nucleic acid	
65	(C) STRANDEDNESS: both	
66	(D) TOPOLOGY: unknown	
67		
68	(ii) MOLECULE TYPE: cDNA	
69	(11, 110, 110, 110, 110, 110, 110, 110,	
70		
71		
72	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:	
73	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2.	
73 74	GACTTCAGAA GCTTCTGCAG TTACGATCGT TATCATTCCT TACTTCTTAA ACTTTC	56
	GACTICAGAA GCTTCTGCAG TTACGATCGT TACTACTTCTTAA ACTTTC	56
75	(a) THEODINATION FOR GEO TO NO. 2	
76	(2) INFORMATION FOR SEQ ID NO: 3:	
77	(1)	
78	(i) SEQUENCE CHARACTERISTICS:	
79	(A) LENGTH: 35 base pairs	
80	(B) TYPE: nucleic acid	
81	(C) STRANDEDNESS: both	
82	(D) TOPOLOGY: unknown	
83		
84	(ii) MOLECULE TYPE: cDNA	
85		
86		
87		
88	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:	
89		
90	ATGCCTATGC ATGTGATCTG CCTCAAACCC ACAGC	35
91		
92	(2) INFORMATION FOR SEQ ID NO: 4:	
93	(-,	
94	(i) SEQUENCE CHARACTERISTICS:	
95	(A) LENGTH: 34 base pairs	
96	(B) TYPE: nucleic acid	
96 97	(C) STRANDEDNESS: both	
97 98	(D) TOPOLOGY: unknown	
	(D) 10F0D0GI. MIKHOWH	
99		

152

RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 16:58:21

													IN	PUT S	SET: S	32395.r	aw
100	(ii)	MOL	ECUL:	E TY	PE:	cDNA											
101																	
102 103																	
103	(xi)	SEO	UENC	E DE	SCRI	PTTO	N: Si	EO TI	ON O	. 4:							
105	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:																
106	GGCAGATC	AC A	TGCA'	TAGG	C AT	TTGT.	AGCA	ATA	3								34
107																	
108 109	(2) INFO	RMAT	ION	FOR :	SEQ	ID N	D: 5	:									
110	(i)	SEQ	UENC:	E CH	ARAC'	rer I:	STIC	S :									
111	(-)	-		NGTH					s								
112		(B) TY	PE: a	amin	o ac	id										
113		(D) TO:	POLO	GY:	line	ar										
114	(22)	MOT		mse	DE	-											
115 116	(11)	MOL	ECUL.	E IY.	PE:]	proc	STII										
117																	
118																	
119	(xi)	SEQ	UENC:	E DE	SCRI	PTIO	N: S	EQ II	ои с	: 5:							
120	_	_	_	_		_,		_	_		_	_	_	_,	_		
121	-	Asp	Leu	Pro		Thr	His	Ser	Leu	_	Ser	Arg	Arg	Thr		Met	
122 123	1				5					10					15		
124	Leu	Leu	Ala	Gln	Met	Arg	Arg	Ile	Ser	Leu	Phe	Ser	Cys	Leu	Lys	Asp	
125				20		_			25				•	30	•	-	
126				_	_	_				_	_				_		
127	Arg	Arg	_	Phe	Gly	Phe	Pro		Glu	Glu	Phe	Gly		Gln	Phe	Gln	
128 129			35					40					45				
130	Lvs	Ala	Glu	Thr	Ile	Pro	Val	Leu	His	Glu	Met	Ile	Gln	Gln	Ile	Phe	
131	-2	50					55					60					
132																	
133		Leu	Phe	Ser	Thr	_	Asp	Ser	Ser	Ala		Trp	Asp	Glu	Thr		
134 135	65					70					75					80	
136	Leu	Asp	Lvs	Phe	Tvr	Thr	Glu	Leu	Tvr	Gln	Gln	Leu	Asn	Asp	Leu	Glu	
137			-1-		85				- 2 -	90					95		
138																	
139	Ala	Cys	Val		Gln	Gly	Val	Gly		Thr	Glu	Thr	Pro		Met	Lys	
140	•			100					105					110			
141 142	Glu	Asp	Ser	Tle	T.e.u	Δla	Val	Ara	Lvs	Tvr	Phe	Gln	Ara	Tle	Thr	Leu	
143	014	p	115		Lou	1114	• • • •	120		- 1	1110	0111	125				
144																	
145	Tyr	Leu	Lys	Glu	Lys	Lys		Ser	Pro	Cys	Ala		Glu	Val	Val	Arg	
146		130					135					140					
147 148	ת ות	Glu	Tle	Met	Δνα	Ser	Dhe	Ser	יים. ז	Ser	Thr	Δen	Ĭ.e.:	Gln	Glu	Ser	
149	145	GIU	116	1.1 C C	AT 9	150	FIIG	OCT.	ыcи	DEL	155	WOII	Leu	CIII	OIU	160	
150	_ 13															-	

165

RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 16:58:27

													11	VPUT	SET:	S2395.ra
153 154 155	(2)	INF	ORMA'	TION	FOR	SEQ	ID I	NO:	6:							
156 157 158 159 160 161		(i	() () ()	A) L: B) T C) S'	CE CI ENGTI YPE: TRANI OPOL	H: 4: nuc: DEDN	95 ba leic ESS:	ase j acio boti	pair: d	S						
162 163		(ii) MO:	LECU:	LE T	YPE:	cDN	A								
164 165 166 167 168		(ix		A) N	E: AME/I OCATI			495								
169 170		(xi) SE	QUEN	CE D	ESCR:	IPTI	ON:	SEQ :	ID N	D: 6	:				
171 172 173 174		GAT Asp														48
175 176 177 178		CTG Leu														96
179 180 181 182		CGT Arg													CAA Gln	144
183 184 185 186 187		GCT Ala 50														192
188 189 190 191		CTC Leu														240
192 193 194 195		GAC Asp														288
196 197 198 199		TGT Cys														336
200 201 202 203		GAC Asp														384
204 205		CTG Leu														432

RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 16:58:32

														II	VPUT	SET:	S2395.rd
206		130					135					140					
207 208	GCA	GAA	ATC	ATG	AGA	тст	ттт	тст	TTG	TCA	ACA	AAC	TTG	CAA	GAA	AGT	480
209					Arg												
210	145				5	150					155					160	
211																	
212	TTA	AGA	AGT	AAG	GAA												495
213	Leu	Arg	Ser	Lys	Glu												
214		•		-	165												
215																	
216																	
217	(2)	INF	ORMA'	TION	FOR	SEQ	ID 1	NO:	7:								
218																	
219			(i)	SEQU	ENCE	CHAI	RACT	ERIS'	rics	:							
220			()	A) L	ENGT	H: 16	65 at	mino	acio	ds							
221			()	B) T	YPE:	amiı	no a	cid									
222			(1	D) T	OPOL	OGY:	line	ear									
223																	
224		(ii)) MO	LECU	LE T	YPE:	pro	tein									
225																	
226		(xi)) SE	QUEN	CE DI	ESCR:	IPTI	: NC	SEQ :	ID N	0: 7	:					
227																	
228	Cys	Asp	Leu	Pro	Gln	Thr	His	Ser	Leu	Gly	Ser	Arg	Arg	Thr	Leu	Met	
229	1				5					10					15		
230																	
231	Leu	Leu	Ala	Gln	Met	Arg	Arg	Ile	Ser	Leu	Phe	Ser	Cys	Leu	Lys	Asp	
232				20					25					30			
233																	
234	Arg	Arg	Asp	Phe	Gly	Phe	Pro	Gln	Glu	Glu	Phe	Gly	Asn	Gln	Phe	Gln	
235			35					40					45				
236																	
237	Lys		Glu	Thr	Ile	Pro	Val	Leu	His	Glu	Met	Ile	Gln	Gln	Ile	Phe	
238		50					55					60					
239																	
240	Asn	Leu	Phe	Ser	Thr	Lys	Asp	Ser	Ser	Ala	Ala	Trp	Asp	Glu	Thr		
241	65					70					75					80	
242																_	
243	Leu	Asp	Lys	Phe	Tyr	Thr	Glu	Leu	Tyr		Gln	Leu	Asn	Asp		Glu	
244					85					90					95		
245	_		_	_												_	
246	Ala	Cys	Val		Gln	Gly	Val	Gly		Thr	Glu	Thr	Pro		Met	Lys	
247				100					105					110			
248	_			_		_	_									_	
249	Glu	Asp		Ile	Leu	Ala	Val	_	Lys	Tyr	Phe	Gln	_	Ile	Thr	Leu	
250			115					120					125				
251								_					-	-		_	
252	Tyr		Lys	Glu	Lys	Lys		Ser	Pro	Cys	Ala		GLu	val	vaı	Arg	
253		130					135					140					
254					_	_	-,	_	_		1	_		a -	~ ~	a .	
255		Glu	Ile	Met	Arg		Pne	Ser	Leu	Ser		Asn	Leu	GIn	GLu		
256	145					150					155					160	
257	T .		a	.	~ 1												
258	Leu	Arg	ser	Lys	GIu												

RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 16:58:38

INPUT SET: S2395.raw

***** PREVIOUSLY ERRORED SEQUENCES - EDITED *****

60 61	(2)	INF	ORMA'	TION	FOR	SEQ	ID I	: OV	2:									
62		/4 1	\ CT/	אוריבונו	CE CI	א מבות ב	. מישיחיר	rem r	ac.									
63		(1			ENGT													
64					YPE:													
65					TRANI													
66			•		OPOL													
67			(,	J, 1	OFOL	JG1.	um	.10W11										
68		(33)	MO1	.ecm	LE T	ZDE.	CDM	Δ										
69		(+ +)	1.101	DECO.		rem.	CDIVI	•										
70																		
70 71																		
72		(vi)	CE/	אוריים זור	CE DI	בפרם.	ר סיידר	λ Ι. (SEV .	א כדו	1. 2							
72		(~+)	, SE	20514	נם בו	JOCK.	LFII	J14	JEQ .	10 14	J. Z	•						
74	CAC	TTCAC	ממב	<u>ግ</u> ረጣጥጥ/	מייתברי	יים ידיר	ראכמי	שרכי	י מידי יו	דר ⊿ידי	ייייייי	יים <i>ב</i> יי	րաշար	ממיד	מ כידידים	rc		56
75 75	Onc.	LICH	J	3011		10 1.	incor	1100	<u> </u>	i Crii .	1001	IAC.		11111	1011			50
73																		
154	(2)	INFO	ORMA'	rion	FOR	SEQ	ID I	.O.	5:									
155																		
156		(i)	SE	QUEN	CE CI	HARA	CTER:	ISTI	CS:									
157			(2	A) L	ENGTI	H: 49	95 ba	ase p	oair:	5								
158			(1	3) T	YPE:	nuc	leic	acio	d									
159			((C) S'	rani	DEDNI	ESS:	botl	h									
160			(1) T(OPOL	OGY:	unkı	nown										
161																		
162		(ii)	MO	LECU:	LE T	PE:	CDN	Ą										
163																		
164																		
165		(ix)) FE	ATUR	⊑:													
166			(7	A) N	AME/I	KEY:	CDS											
167			(1	3) L(CAT:	ON:	1	195										
168																		
169																		
170		(xi)	SE(QUEN	CE DI	ESCR.	[PTI	ON: 9	SEQ :	ID NO	0: 6	:						
171																		
172		GAT															48	
173	-	Asp	Leu	Pro		Thr	His	Ser	Leu	_	Ser	Arg	Arg	Thr		Met		
174	1				5					10					15			
175																		
176		CTG															96	
177	Leu	Leu	Ala		Met	Arg	Arg	Ile		Leu	Phe	Ser	Cys		Lys	Asp		
178				20					25					30				
179								 -										
180		CGT															144	
181	Arg	Arg	_	Phe	Gly	Phe	Pro		Glu	Glu	Phe	GLy		Gln	Phe	GIn		
182			35					40					45					
183																		

RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

DATE: 06/16/94

TIME: 16:58:43 INPUT SET: S2395.raw AAG GCT GAA ACC ATC CCT GTC CTC CAT GAG ATG ATC CAG CAG ATC TTC Lys Ala Glu Thr Ile Pro Val Leu His Glu Met Ile Gln Gln Ile Phe AAT CTC TTC AGC ACA AAG GAC TCA TCT GCT GCT TGG GAT GAG ACC CTC Asn Leu Phe Ser Thr Lys Asp Ser Ser Ala Ala Trp Asp Glu Thr Leu CTA GAC AAA TTC TAC ACT GAA CTC TAC CAG CAG CTG AAT GAC CTG GAA Leu Asp Lys Phe Tyr Thr Glu Leu Tyr Gln Gln Leu Asn Asp Leu Glu GCC TGT GTG ATA CAG GGG GTG GGG GTG ACA GAG ACT CCC CTG ATG AAG Ala Cys Val Ile Gln Gly Val Gly Val Thr Glu Thr Pro Leu Met Lys GAG GAC TCC ATT CTG GCT GTG AGG AAA TAC TTC CAA AGA ATC ACT CTC Glu Asp Ser Ile Leu Ala Val Arg Lys Tyr Phe Gln Arg Ile Thr Leu TAT CTG AAA GAG AAG AAA TAC AGC CCT TGT GCC TGG GAG GTT GTC AGA Tyr Leu Lys Glu Lys Lys Tyr Ser Pro Cys Ala Trp Glu Val Val Arg GCA GAA ATC ATG AGA TCT TTT TCT TTG TCA ACA AAC TTG CAA GAA AGT Ala Glu Ile Met Arg Ser Phe Ser Leu Ser Thr Asn Leu Gln Glu Ser 212 TTA AGA AGT AAG GAA Leu Arg Ser Lys Glu (2) INFORMATION FOR SEQ ID NO: 8: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 869 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: both (D) TOPOLOGY: unknown (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8: GAATTCGAGA TTATCGTCAC TGCAATGCTT CGCAATATGG CGCAAAATGA CCAACAGCGG

TTGATTGATC AGGTAGAGGG GGCGCTGTAC GAGGTAAAGC CCGATGCCAG CATTCCTGAC

GACGATACGG AGCTGCTGCG CGATTACGTA AAGAAGTTAT TGAAGCATCC TCGTCAGTAA

RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 16:58:49

	INPUT SET: S2395.raw
280	
281 282	AAAGTTAATC TTTTCAACAG CTGTCATAAA GTTGTCACGG CCGAGACTTA TAGTCGCTTT 240
283 284	GTTTTTATTT TTTAATGTAT TTGCTCGAGA GGTTGAGGTG ATTTTATGAA AAAGAATATC 300
285 286	GCATTTCTTC TTGCATCTAT GTTCGTTTTT TCTATTGCTA CAAATGCCTA TGCATGTGAT 360
287	CTGCCTCAAA CCCACAGCCT GGGTAGCAGG AGGACCTTGA TGCTCCTGGC ACAGATGAGG 420
288 289	AGAATCTCTC TTTTCTCCTG CTTGAAGGAC AGACGTGACT TTGGATTTCC CCAGGAGGAG 480
290 291	TTTGGCAACC AGTTCCAAAA GGCTGAAACC ATCCCTGTCC TCCATGAGAT GATCCAGCAG 540
292 293	ATCTTCAATC TCTTCAGCAC AAAGGACTCA TCTGCTGCTT GGGATGAGAC CCTCCTAGAC 600
294 295	AAATTCTACA CTGAACTCTA CCAGCAGCTG AATGACCTGG AAGCCTGTGT GATACAGGGG 660
296	
297 298	GTGGGGGTGA CAGAGACTCC CCTGATGAAG GAGGACTCCA TTCTGGCTGT GAGGAAATAC 720
299 300	TTCCAAAGAA TCACTCTCTA TCTGAAAGAG AAGAAATACA GCCCTTGTGC CTGGGAGGTT 780
301 302	GTCAGAGCAG AAATCATGAG ATCTTTTCT TTGTCAACAA ACTTGCAAGA AAGTTTAAGA 840
303 304	AGTAAGGAAT GATAACGATC GTAACTGCA 869
204	
305	(2) INFORMATION FOR SEQ ID NO: 9:
306	
307	(i) SEQUENCE CHARACTERISTICS:
308	(A) LENGTH: 1177 base pairs
309	(B) TYPE: nucleic acid
310	(C) STRANDEDNESS: both
311	(D) TOPOLOGY: unknown
312	
313	(ii) MOLECULE TYPE: cDNA
314	
315 316	(ix) FEATURE:
	(IX) FEATURE: (A) NAME/KEY: CDS
317 318	(B) LOCATION: 286873
319	(D) OTHER INFORMATION: /function= "Cytokine"
320	/product= "Interferon-omegal"
321	, product interretain omegar
322	(ix) FEATURE:
323	(A) NAME/KEY: mat peptide
324	(B) LOCATION: 355873
325	(D) OTHER INFORMATION: /function= "Cytokine"
326	/product= "Interferon-omega"
327	•
328	(ix) FEATURE:
329	(A) NAME/KEY: sig_peptide
330	(B) LOCATION: 286354
331	(D) OTHER INFORMATION: /product= "ST II Leader"

RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 16:58:55

222														II	NPUT	SET: S23	395.raw
332 333																	
334		(xi) SE	QUEN	CE D	ESCR:	IPTI	ON:	SEQ :	ID N	0: 9	:					
335																	
336 337	GAA:	rtgg:	AGA '	TTAT(CGTC	AC TO	GCAA'	rgct'	r cg	CAAT	ATGG	CGC	'AAAA	TGA (CCAA	CAGCGG	60
338 339	TTG	ATTG	ATC I	AGGT	AGAG	GG G	GCGC'	rgta(C GA	GGTA	AAGC	CCG	ATGC	CAG	CATT	CCTGAC	120
340	GAC	GATA	CGG 2	AGCT	GCTG	CG C	GATT	ACGT	A AA	GAAG'	TTAT	TGA	AGCA'	rcc '	rcgr(CAGTAA	180
341 342	AAA	GTTA	ATC T	TTTT(CAAC	AG C	rgtc	ATAA	A GT	TGTC	ACGG	CCG	AGAC'	TTA :	ragt(CGCTTT	240
343	Cmmr	ם מחשות אוני	, mm	י מיחים	» шстт:	, m m	naam/	~~ ~ ~ ·	, aa	TIMO N	2000	2 mm	חרדו או	TC 7.	71 71 71 71 F	n C	204
344 345	GTT.	I'I'IA'	1.1.1.	TTTA	ATGTZ	AT T.	rger	LUAU	A GG	TTGA	erre.	ATT.		-	AA Ai ys L	-	294
346														23			
347	7 7 C	N M C	CCA		CMM.	amm.	G G 7	mam	3 m.c	mma	amm	mmm	mam	3 000	aam	7 C7	240
348 349															Ala	ACA Thr	342
350	-20			1110	Dou	-15		001			-10	1110	501		1124	-5	
351																	
352															AGC		390
353 354	ASII	АТА	Tyr	Ата	Cys 1	Asp	ьeu	Pro	GIN 5	ASI	HIS	GIY	Leu	ьеи 10	Ser	Arg	
355					_				J					10			
356	AAC	ACC	TTG	GTG	CTT	CTG	CAC	CAA	ATG	AGG	AGA	ATC	TCC	CCT	TTC	TTG	438
357	Asn	Thr	Leu	Val	Leu	Leu	His	Gln	Met	Arg	Arg	Ile	Ser	Pro	Phe	Leu	
358			15				•	20					25				
359 360	THE CHIE	CTC	7 7 C	G N C	א פיא	א כי א	CAC	TTTC	אממ	TTTC	ccc	CA C	C A C	እ ሞር	CULY	AAA	486
361															Val		400
362	070	30	-1-		5	5	35		5			40				-1-	
363			•														
364															GAG		534
365 366	G1y 45	Ser	GIn	Leu	GIn	Lys 50	Ala	His	Val	Met	Ser 55	Val	Leu	Hıs	Glu	Met 60	
367	45					30					55					00	
368	CTG	CAG	CAG	ATC	TTC	AGC	CTC	TTC	CAC	ACA	GAG	CGC	TCC	TCT	GCT	GCC	582
369	Leu	Gln	Gln	Ile	Phe	Ser	Leu	Phe	His	Thr	Glu	Arg	Ser	Ser	Ala	Ala	
370					65					70					75		
371 372	maa	777	7 mc	700	CITIC	CITI N	C7 C	CI 7 7	CITIC!	C A C	7 CT	CCA	Cmm	CAT	CAG	C2 7	630
372															Gln		630
374				80			F		85			1		90			
375																	
376															GGA		678
377	Leu	Gln		Leu	Glu	Thr	Cys		Leu	Gln	Val	Val	_	Glu	Gly	Glu	
378 379			95					100					105				
380	TCT	GCT	GGG	GCA	ATT	AGC	AGC	CCT	GCA	CTG	ACC	TTG	AGG	AGG	TAC	TTC	726
381															Tyr		
382		110					115					120					
383	an a	CC2	7 m.c	CCTT	CMC.	ma a	CTTC	7, 7, 7,	G A G	ת ת	7, 7, 7,	mγ.α	אממ	C A C	TI CIT	CCC	774
384	CAG	GGA	ATC	CGT	GIC	TAC	CIG	AAA	GAG	AAG	AAA	IAC	AGC	GAC	TGT	GCC	//4

RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 16:59:00 INPUT SET: S2395.raw Gln Gly Ile Arg Val Tyr Leu Lys Glu Lys Lys Tyr Ser Asp Cys Ala

TGG GAA GTT GTC AGA ATG GAA ATC ATG AAA TCC TTG TTC TTA TCA ACA Trp Glu Val Val Arg Met Glu Ile Met Lys Ser Leu Phe Leu Ser Thr AAC ATG CAA GAA AGA CTG AGA AGT AAA GAT AGA GAC CTG GGC TCA TCT Asn Met Gln Glu Arg Leu Arg Ser Lys Asp Arg Asp Leu Gly Ser Ser TGAAATGATT CTCATTGATT AATTTGCCAT ATAACACTTG CACATGTGAC TCTGGTCAAT TCAAAAGACT CTTATTTCGG CTTTAATCAC AGAATTGACT GAATTAGTTC TGCAAATACT TTGTCGGTAT ATTAAGCCAG TATATGTTAA AAAGACTTAG GTTCAGGGGC ATCAGTCCCT AAGATGTTAT TTATTTTAC TCATTTATTT ATTCTTACAT TTTATCATAT TTATACTATT TATATTCTTA TATAACAAAT GTTTGCCTTT ACATTGTATT AAGATAACAA AACATGTTCA 1170

(2) INFORMATION FOR SEQ ID NO: 11:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 879 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: both

(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

GGATCCA

(A) NAME/KEY: CDS

(B) LOCATION: 286..852

(ix) FEATURE:

(A) NAME/KEY: mat peptide

(B) LOCATION: 355..852

(D) OTHER INFORMATION: /function= "Cytokine" /product= "Interferon-alpha-2c"

(ix) FEATURE:

(A) NAME/KEY: sig_peptide

(B) LOCATION: 286..354

(D) OTHER INFORMATION: /product= "ST II Leader"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

RAW SEQUENCE LISTING PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 16:59:06

405													II	VPUT	SET: S2	395.ra
487 488 489	GAATTCG	AGA '	TTAT	CGTC	AC TO	GCAA'	rgct'	r cg	CAAT	ATGG	CGC	AAAA'	TGA (CCAA	CAGCGG	60
490 491	TTGATTG	ATC .	AGGT	AGAG	GG G	GCGC'	rgta(C GA	GGTA	AAGC	CCG	ATGC	CAG (CATT	CCTGAC	120
492 493	GACGATA	.CGG	AGCT	GCTG	CG C	GATT	ACGT	AA A	GAAG'	TTAT	TGA	AGCA!	rcc '	rcgr	CAGTAA	180
494 495	AAAGTTA	ATC '	TTTT	CAAC	AG C'	rgtc2	ATAA	A GT	rgtc:	ACGG	CCG	AGAC'	TTA '	ragt(CGCTTT	240
496 497 498 499	GTTTTTA	TTT '	TTTA	ATGT	AT T	rgct(CGAG	A GG'	rtga(GGTG	ATT.	Me		AA AA ys Ly		294
500 501 502 503	AAT ATC Asn Ile -20															342
504 505 506 507	AAT GCC Asn Ala															390
508 509 510 511	AGG ACC Arg Thr															438
512 513. 514 515	TGC TTG Cys Leu 30	Lys														486
516 517 518 519	AAC CAG Asn Gln 45															534
520 521 522 523	CAG CAG Gln Gln															582
524 525 526 527	GAT GAG Asp Glu															630
528 529 530 531	AAT GAC Asn Asp															678
532 533 534 535	CCC CTG Pro Leu 110	Met														726
536 537 538 539	AGA ATC Arg Ile 125													_		774

PAGE: 12	RAW SEQUENCE LISTING PATENT APPLICATION USA	DATE: 06/16/94 TIME: 16:59:12
		INPUT SET: S2395.raw
540	GAG GTT GTC AGA GCA GAA ATC ATG AGA TCT TT	IT TCT TTG TCA ACA AAC 822
541	Glu Val Val Arg Ala Glu Ile Met Arg Ser Ph	ne Ser Leu Ser Thr Asn
542	145 150	155
543		
544	TTG CAA GAA AGT TTA AGA AGT AAG GAA TGATAA	ACGAT CGTAACTGCA 869
545	Leu Gln Glu Ser Leu Arg Ser Lys Glu	
546	160 165	
547		
548	GAAGCTTAAT	879
549		

.

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/249,671

DATE: 06/16/94 TIME: 16:59:13

INPUT SET: S2395.raw

Line Error

Original Text